# INEOS HDPE G36-10-150

Medium Density Polyethylene

**INEOS Olefins & Polymers USA**

## Technical Data

| Product Description | | |
|---|---|---|
| G36-10-150 is a medium density hexene copolymer polyethylene resin designed for the blown geomembrane sheet process. This resin is especially well suited for the production of textured geomembranes. | | |
| **General** | | |
| Material Status | • Commercial: Active | |
| Literature [1] | • Technical Datasheet (English) | |
| Search for UL Yellow Card | • INEOS Olefins & Polymers USA | |
| Availability | • North America | |
| Features | • Copolymer | • Hexene Comonomer |
| Uses | • Geo Membranes | |
| RoHS Compliance | • Contact Manufacturer | |
| Forms | • Pellets | |
| Processing Method | • Blow Molding | |

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density | 0.937 | g/cm³ | ASTM D4883 |
| Melt Mass-Flow Rate (MFR) | | | ASTM D1238 |
| 190°C/21.6 kg | 13 | g/10 min | |
| 190°C/5.0 kg | 0.50 | g/10 min | |
| Environmental Stress-Cracking Resistance [3] | > 3000 | hr | ASTM D1693 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Strength [4] | | | ASTM D638 |
| Yield | 17.2 | MPa | |
| Break | 27.6 | MPa | |
| Tensile Elongation [4] (Break) | > 800 | % | ASTM D638 |
| Flexural Modulus - Tangent | 655 | MPa | ASTM D790 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Notched Izod Impact | 600 | J/m | ASTM D256 |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Durometer Hardness (Shore D) | 60 | | ASTM D2240 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Brittleness Temperature | < -75.0 | °C | ASTM D746 |
| Oxidation Induction Time (200°C) | > 100 | min | |

### Notes

[1] These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

[2] Typical properties: these are not to be construed as specifications.

[3] Single Point Method

[4] 51 mm/min